

Steel Construction: Post-Fabrication--Final Inspection Instructions Prior to Painting

Scope Statement

Conduct final inspection before the girder is painted, complete and route required documentation, and monitor loading for shipment.

Quality Assurance performed by the Department may include verification of any or all steps marked "QA." Quality Assurance may order back-up radiographs as determined by the Materials Engineer.

Procedure

Record all items on the Girder Inspection Record (G.I.R.).

QC/QA

1. Inspect the girders with the web in the vertical position as follows:
 - Look down the length of the member for sweep.
 - If there are any apparent problems with the sweep, run a line along the inside of the girder and measure the sweep.
 - Re-inspect the welds for visual defects.
 - Check the bearing seats for flatness, and to ensure that the seats are protected from rust by an approved coating system.
2. Check the ends of the bearing stiffeners for fit, check the flanges to ensure that no tip exceeds the specifications, and check the centering of the web to the flange.
3. Look at the web plate to verify that warpage does not exceed the specification.
4. Verify the sizes of the fillet welds.
5. Check the blasting grit for size and dryness, and check the total blasting job to verify compliance with cleanliness requirements. (See Special Provisions for painting specifications.)
6. Inspect all welds to ensure that required repairs have been made after blasting and prior to painting.
7. Examine flange edges for chain gouges.

8. Check all plates for surface defects.
9. Send a copy of the test report to the Project Engineer and route the original through the standard distribution system.
10. Forward copies of all material certifications to the QA Inspector.
11. Witness the loading and blocking of the girders prior to shipment.

Steel Construction: Post-Fabrication--Painting

Scope Statement

Ensure structure is ready to be painted, the proper paint is used, and all required areas are painted.

Quality Assurance performed by the Department may include verification of any or all steps marked "QA." Quality Assurance may order back-up radiographs as determined by the Materials Engineer.

Procedure

Ensure that the girder is not painted until all repairs are completed and approved.

QC/QA

1. Verify that the proper paint is used, that environmental requirements are met, and that the paint is applied according to the manufacturer's recommendations.
2. Check paint thickness at various locations with a magnetic gauge. Pay special attention to hard-to-paint areas, such as underneath the top flange, to ensure that the specified paint thickness is maintained.
3. Identify all acceptable members with an orange UDOT sticker and issue a test report stating that the member meets the specifications. (QA only).